

CLAIMS

1. (Previously Amended) An electronic device comprising a microelectromechanical system (MEMS) element, the element comprising first and second electrodes wherein the first electrode has a surface area larger than that of the second electrode and an intermediate beam with first and second opposing conductive side faces, the first side face (facing the first electrode) and the second side face facing the second electrode, which beam is movable by application of a driving voltage between said first and second electrodes, characterized in that: the second electrode and the second conductive side face of the beam form with an intermediate dielectric a first switchable capacitor that is connected in a signal path between an input and an output, and the first electrode and the first side face of the beam form with an intermediate dielectric a second switchable capacitor, that is coupled from the signal path to ground.
2. (Previously Amended) An electronic device as claimed in claim 1, wherein the beam is embodied as a third electrode.
3. (Canceled).
4. (Previously Amended) An electronic device as claimed in claim 1, wherein the second electrode is subdivided into individual segments.
5. (Previously Amended) An electronic device as claimed in claim 1, wherein the electrodes are present in planes substantially parallel to a substrate.
6. (Previously Amended) An electronic device as claimed in claim 5, wherein the second electrode is present between the beam and the substrate and the first electrode is embodied in a layer with a spring constant that is substantially larger than the spring constant of the beam.
7. (Previously Amended) An electronic device as claimed in claim 1, wherein the conductive

side faces of the beam are connected to the input and the first electrode functions as the output.

8. (Previously Amended) An electronic device as claimed in claim 2, wherein the third electrode is provided with an electrically insulating layer at both the first and the second side faces.

9. (Previously Amended) An electronic device comprising a microelectromechanical systems (MEMS) element provided on a substrate, comprising first and second electrodes wherein the second electrode is provided with a surface area that is smaller than that of the first electrode, which electrodes are provided in planes that are substantially parallel to the substrate, an intermediate beam being provided between said first and second electrodes, said intermediate beam having first and second opposing conductive side faces, the first side face facing the first electrode and the second side face facing the second electrode, which beam is movable by application of a driving voltage between said first and second electrodes; characterized in that the first and second conductive side faces are part of the same electrically conductive layer being a third electrode.

10. (Previously Amended) An electronic device as claimed in claim 9, wherein the second electrode is present between the third electrode and the substrate and the first electrode is embodied in a layer with a spring constant that is substantially larger than the spring constant of the third electrode.

11. (Canceled).

12. (Previously Amended) An electronic device as claimed in claim 9, wherein the second electrode is subdivided into individual segments.

13. (Previously Amended) An electronic device as claimed in claim 2, wherein the third electrode is substantially elastic, such as to be attachable with a first surface area at one edge

to the second electrode and with a second surface area at an opposite edge to the first electrode , and such that on application of an actuation voltage the ratio of first to second surface area is changeable.

14. (Previously Amended) An electronic device as claimed in claim 6, wherein the first electrode is defined in a layer in which also an inductor is defined.

15. (Previously Amended) An electronic device as claimed in claim 2, wherein the first and the third electrodes are defined in layers, in which also the electrodes of a thin film capacitor are defined.

16. (Previously Amended) An electronic device as claimed in claim 6, characterized in that the first electrode is constructed as a bridge with supporting spacers on the substrate .

17. (Previously Amended) An electronic device as claimed in claim 6, wherein the first electrode is part of a membrane- or bridge-like construction that is supported on the substrate with a number of beams laterally connected to said construction, therewith including a spring-like functionality that allows controlled displacement of the first electrode in directions substantially perpendicular to the substrate .

18. (Previously Amended) An electronic device as claimed in claim 1, wherein the MEMS element is part of an impedance matching network.

19. (Previously Amended) A front end module provided with a power amplifier and an electronic device according to claim 1.

20. (Previously Amended) Use of the electronic device according to claim 1, for RF applications, wherein the beam is driven by a driving voltage towards or from the first electrode .

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21. (Previously Amended) A method of driving an electronic device as claimed in claim 2 by application of an actuation voltage.